

DERWENT-ACC-NO: 2003-036970

DERWENT-WEEK: 200303

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TITLE: Method for measuring solid density and primary
particle size of slurry for chemical mechanical
polishing process using ultraviolet spectrometer

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PRIORITY-DATA: 2000KR-0083659 (December 28, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
KR 2002054538 A	July 8, 2002	N/A
001 G01N 021/33		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
KR2002054538A	N/A	2000KR-0083659
December 28, 2000		

INT-CL (IPC): G01N021/33

ABSTRACTED-PUB-NO: KR2002054538A

BASIC-ABSTRACT:

NOVELTY - A method for measuring solid density and primary particle size of slurry is provided to measure solid density and primary particle size in a convenient and accurate manner within a short time period, while allowing slurry quality control to be easily performed.

DETAILED DESCRIPTION - A method for measuring solid density and primary particle size comprises the steps of transmitting ultraviolet ray to the slurry

made of deionized water, metal oxide fine powder and additives,
measuring
transmissivity, and comparing the measured transmissivity with a
calibration
curve. The step of transmitting ultraviolet ray to the slurry uses a
cell(5)
of quartz material having an ultraviolet transmission length of 0.1
to 2cm.
The step of measuring transmissivity uses a light source having a
wavelength of
300 to 1100nm. The calibration curve is made by using a slurry
including a
metal oxide having a size same as the size of the slurry.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: METHOD MEASURE SOLID DENSITY PRIMARY PARTICLE SIZE
SLURRY CHEMICAL
MECHANICAL POLISH PROCESS ULTRAVIOLET SPECTROSCOPE

DERWENT-CLASS: S03

EPI-CODES: S03-E04A5;

